

Title (en)
Spraying of liquids

Title (de)
Flüssigkeitszerstäubung

Title (fr)
Pulvérisation de liquides

Publication
EP 1084758 A3 20020306 (EN)

Application
EP 00126021 A 19920224

Priority

- EP 00126021 A 19920224
- EP 92301530 A 19920224
- EP 91309472 A 19911015
- GB 9104373 A 19910301
- GB 9104374 A 19910301

Abstract (en)
[origin: EP0501725A1] Relatively low resistivity liquids are formed into sprays under the influence of an applied electric field acting between a nozzle 10 and the surroundings (e.g. at earth potential). The liquid issues from the nozzle as a ligament which is caused to undergo necking to a smaller diameter than that of the nozzle orifice 14 thereby producing droplets with a volume median diameter less than the orifice diameter. <IMAGE>

IPC 1-7
B05B 5/035; B05B 5/16; B05B 11/04

IPC 8 full level
B05B 5/025 (2006.01); **B05B 5/16** (2006.01); **B05B 11/04** (2006.01); **B05D 1/04** (2006.01)

CPC (source: EP US)
B05B 5/025 (2013.01 - EP US); **B05B 5/1608** (2013.01 - EP US); **B05B 5/1691** (2013.01 - EP US); **B05B 11/048** (2013.01 - EP US)

Citation (search report)

- [X] DE 3620406 A1 19871223 - DRUZININ ERNEST AVGUSTINOVIC [SU], et al
- [XP] EP 0441501 A1 19910814 - ICI PLC [GB]
- [A] EP 0234842 A2 19870902 - ICI PLC [GB]
- [A] US 2629516 A 19530224 - BADHAM LUCRETIA E
- [A] US 4577803 A 19860325 - OWEN DAVID J [GB]
- [A] CLOUPEAU M ET AL: "ELECTROSTATIC SPRAYING OF LIQUIDS: MAIN FUNCTIONING MODES", JOURNAL OF ELECTROSTATICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 25, no. 2, 1 October 1990 (1990-10-01), pages 165 - 184, XP000172450, ISSN: 0304-3886
- [A] DAVID P. SMITH: "The electrohydrodynamic atomization of liquids", IEEE TRANSACTION ON INDUSTRY APPLICATIONS, vol. 22, no. 3, May 1986 (1986-05-01), New York, pages 527 - 535, XP002184541

Cited by
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Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

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EP 0501725 A1 19920902; EP 0501725 B1 20010613; AT E202014 T1 20010615; AT E309051 T1 20051115; AU 1124692 A 19920903; AU 2053895 A 19950810; AU 658859 B2 19950504; AU 671054 B2 19960808; CA 2062064 A1 19920902; CA 2062064 C 20070130; DE 69231870 D1 20010719; DE 69231870 T2 20020328; DE 69233562 D1 20051215; DE 69233562 T2 20060810; DK 0501725 T3 20011001; EP 1084758 A2 20010321; EP 1084758 A3 20020306; EP 1084758 B1 20051109; ES 2158844 T3 20010916; ES 2253174 T3 20060601; GR 3036300 T3 20011031; HK 1011310 A1 19990709; HK 1035876 A1 20011214; JP H05104035 A 19930427; PT 501725 E 20011031; US 5292067 A 19940308; US 5490633 A 19960213; ZA 922475 B 19930415

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